

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Appln. No.: 10/084,240	Group Art Unit: 1615	SEP 01 2004
Filing Date: February 27, 2002	Docket No. 54459-237216	
Title: BULKING AGENT NEEDLE APPARATUS AND METHOD OF USING THE NEEDLE APPARATUS		

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

I CERTIFY THAT THIS CORRESPONDENCE IS BEING FACSIMILE
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NO. (703) 872-9306), ON SEPTEMBER 1, 2004.

Elaine Raiten
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**THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**

The documents listed on the enclosed Form PTO-1449 are presented pursuant to Applicant's duty of disclosure under 37 C.F.R. § 1.56.

A copy of U.S. Patent 3,189,029, corresponding to French Patent 1,296,976, is enclosed.

A translation of French Patent 1,501,120 is enclosed.

Descriptions of German Patents 346472, 197 50 090, and 93 18 938 are provided below.

Patent No. 346472 PATENT CLAIM:

Needle for injection syringes with a stop mounted on the needle, characterized in that the stop (18) is mounted, fixed so that it can not slide on the needle at a distance between the needle holder (13, 14) and the needle tip (20) such that it achieves the dual purpose of limiting the penetration depth of the needle into the tissue and making possible the removal of the needle tip from the tissue if the needle breaks off at the clamped end.

DE 197 50 090 A1

57 The cannula is provided for a Luer or Luer-lock connection and has a cannula tube and a cannula holder that are connected to each other so that they are tightly fixed. The cannula tube is held within the cannula holder. It is designed as an essentially tube-shaped element with an inner wall that runs conically toward the cannula tube. The cannula tube also

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extends into the space of the cannula holder surrounded by the conical inner wall and thus seals the ring space that would otherwise remain in the cannula holder.

DE 93 18 938 U1 Disposable Dental Instrument

The present invention relates to a disposable dental instrument according to the preamble of Claim 1.

In order to apply a medication to teeth, dentists can fasten a small piece of absorbent cotton on a manual excavator and then dip the absorbent cotton into the medication in order to absorb the medication to be applied to the teeth. This method is not hygienic since it can cause contamination. Fig. 7 shows a dental syringe that is designed for the same purpose. The design is such that the syringe is disposable and thus no contamination problems are created. However, this dental syringe is expensive to manufacture. In addition, the straight tip of the dental syringe makes it difficult for the dentist to apply a medication to the teeth at various angles.

The object of the invention consists of producing a disposable dental instrument that prevents the disadvantages named above.

According to the preferred embodiment of the present invention, the disposable dental instrument has a tube with a bulb or bellows at one end and two inner ring-shaped grooves at a distance from each other at the opposite end and a disposable nozzle tip with a split head and a ring-shaped outer flange on one end that is fitted into the tube and is in engagement with the inner ring-shaped grooves. The bulb or bellows of the tube can be pressed together and then released in order to draw a liquid to be applied to the teeth into the tube. After use, the nozzle tip is disposed of while the tube is kept for repeated use. This saves a large amount of material costs without any contamination problems occurring. The nozzle tip can have a curved or angled shape so that the dental instrument can be used to apply a medication to the teeth at different angles.

The invention will be explained in the following using advantageous embodiments with reference to the attached drawings.


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Applicants have included the fee of \$180 under 37 CFR 1.97(c) and 1.17(p). In the event that the amount submitted herewith is insufficient in any respect, the Commissioner is hereby authorized to charge the balance needed to our Deposit Account No. 06-0029 and notify us of the same.

Respectfully Submitted,

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**THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

February 27, 2002

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FOREIGN PATENT DOCUMENTS							
Name	Document Number	Date	Country	Class	Subclass	Translation Yes/No	
	1 501 120	10.11.1967	France			Yes	
	1 296 976	22.06.1962	France			Yes	
	93 18 938	10.02.1994	Germany			Yes	
	197 50 090	10.05.1999	Germany			Yes	
	346 472	26.03.1919	Germany			Yes	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			

Date Considered

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